

Wilcox PRG discussion with management---4-15-21

RAO: Prevent human (and ecological) direct, inhalation, and ingestion exposures to soil (including the drainage and pond sediment within the Wilcox Process Area) for the future resident child containing lead concentrations that potentially result in a greater than 5% chance of exceeding a target blood lead level of 5, 8, and/or 10 ug/dl, respectively.

RAO: Prevent human direct, inhalation, and ingestion exposures to soil for the future industrial worker containing lead at concentrations that potentially result in a greater than 5% chance of exceeding a target blood lead level of 5, 8, and/or 10 ug/dl, respectively.

RAO: Prevent human direct, inhalation, and ingestion exposures to soil for the future resident child containing benzo(a)pyrene concentrations of 1.2 mg/kg that result in excess cancer risks greater than  $1 \times 10^{-5}$ .

FS will evaluate technologies based on the range of BLead Levels. Primarily focus on the 5 ug/dl for comparison purposes and consistency, with information on how selecting a PRG for 8 and 10 change the volume and cost.

TABLE 1  
RISK-BASED SITE-SPECIFIC PRELIMINARY REMEDIATION GOALS FOR CARCINOGENIC AND NON-CARCINOGENIC RISKS IN SOIL  
RESIDENT ADULT AND CHILD  
WILCOX OIL COMPANY SUPERFUND SITE  
BRISTOW, CREEK COUNTY, OKLAHOMA

Contaminant of Concern	PRG <sup>1</sup> for HI = 1.0 (mg/kg)	PRG <sup>1</sup> for HI = 0.1 (mg/kg)	Site-Specific PRG for Carcinogenic Risk 10 <sup>-6</sup> (mg/kg)	Site-Specific PRG for Carcinogenic Risk 10 <sup>-5</sup> (mg/kg)	Site-Specific PRG for Carcinogenic Risk 10 <sup>-4</sup> (mg/kg)	Background UPL (mg/kg)	Maximum Concentration <sup>2</sup> (mg/kg)
Resident Adult and Child <sup>3</sup>							
Benzo(a)pyrene	NA	NA	0.12	1.2	11.5	NA	31.0
Contaminant of Concern	PRG for HI = 1.0 (mg/kg)	PRG for HI = 0.1 (mg/kg)	Site-Specific PRG for 5 µg/dL Blood- Lead Level <sup>3</sup> (mg/kg)	Site-Specific PRG for 8 µg/dL Blood- Lead Level <sup>3</sup> (mg/kg)	Site-Specific PRG for 10 µg/dL Blood-Lead Level <sup>3</sup> (mg/kg)	Background UPL (mg/kg)	Maximum Concentration <sup>2</sup> (mg/kg)
Resident Child							
Lead	NA	NA	200	300	400	9.19	20,800

TABLE 2  
RISK-BASED SITE-SPECIFIC PRELIMINARY REMEDIATION GOALS FOR CARCINOGENIC AND NON-CARCINOGENIC RISKS IN SOIL  
COMMERCIAL/INDUSTRIAL WORKER  
WILCOX OIL COMPANY SUPERFUND SITE  
BRISTOW, CREEK COUNTY, OKLAHOMA

Contaminant of Concern	PRG <sup>1</sup> for HI = 1.0 (mg/kg)	PRG <sup>1</sup> for HI = 0.1 (mg/kg)	Site-Specific PRG for Carcinogenic Risk 10 <sup>-6</sup> (mg/kg)	Site-Specific PRG for Carcinogenic Risk 10 <sup>-5</sup> (mg/kg)	Site-Specific PRG for Carcinogenic Risk 10 <sup>-4</sup> (mg/kg)	Background UPL (mg/kg)	Maximum Concentration <sup>2</sup> (mg/kg)
<b>Worker</b>							
Benzo(a)pyrene	NA	NA	3.0	30	300	NA	31.0
Contaminant of Concern	PRG for HI = 1.0 (mg/kg)	PRG for HI = 0.1 (mg/kg)	Site-Specific PRG for 5 µg/dL Blood- Lead Level <sup>3</sup> (mg/kg)	Site-Specific PRG for 8 µg/dL Blood- Lead Level <sup>3</sup> (mg/kg)	Site-Specific PRG for 10 µg/dL Blood Lead Level <sup>3</sup> (mg/kg)	Background UPL (mg/kg)	Maximum Concentration <sup>2</sup> (mg/kg)
<b>Worker</b>							
Lead	NA	NA	500	800	1,000	9.19	20,800